

IN THE CLAIMS:

Please amend the claims as follows (complete listing of claims with markups according to Revised Format):

1. (currently amended) A method of ~~calculating a time value for a frame of data to be transmitted~~ transmitting data comprising ~~the steps of:~~
 - a. transmitting a previous frame ~~a number of frames~~ before ~~the~~ a frame of data to be transmitted;
 - b. obtaining a time stamp value ~~from~~ of the previous frame; and
 - c. determining ~~the~~ a time value using the time stamp value; and inserting the time value into the frame of data to be transmitted.
2. (currently amended) The method as claimed in claim 1 wherein ~~the step of determining the time value is completed by~~ comprises adding a value representing a length of time for transmission of the number of frames previous frame and any frames between the previous frame and the frame of data to be transmitted, to the time stamp value.
3. (canceled).
4. (currently amended) The method as claimed in claim 3 ~~1~~ wherein the time value is inserted into a first packet of the frame of data to be transmitted.
5. (currently amended) The method as claimed in claim 1 wherein at least three frames separate the frame of data to be transmitted from the previous frame ~~the number of frames is equal to four.~~
6. (currently amended) The method as claimed in claim 1 wherein the previous frame is comprises a dummy frame.
7. (currently amended) The method as claimed in claim 1 wherein the time value is comprises a presentation time value.

8. (currently amended) A method of transmitting a stream of data ~~including a plurality of packets comprising the steps of:~~
- a. calculating a time value for a packet to be transmitted within the stream of data by ~~transmitting a previous packet~~, obtaining a time stamp value ~~from the~~ of a previously transmitted packet and determining the time value using the time stamp value; and
 - b. inserting the time value into the packet to be transmitted.
9. (currently amended) The method as claimed in claim 8 wherein ~~the step of~~ calculating a time value ~~is completed by~~ comprises adding the time stamp value of the previous packet to a value representing a length of time of transmission for a number of packets between the previous packet and the packet to be transmitted.
10. (currently amended) The method as claimed in claim 9 wherein the packet to be transmitted is at least part of a video frame.
11. (currently amended) The method as claimed in claim 10 wherein the packet to be transmitted ~~is~~ comprises a first packet within the video frame.
12. (currently amended) A method of transmitting a stream of data ~~including a plurality of packets comprising the steps of:~~
- a. transmitting one or more dummy packets, ~~from a transmitting node~~, wherein each ~~of the~~ unique dummy packets packet has an associated time stamp value representing a ~~current~~ time at which ~~a corresponding~~ the dummy packet is transmitted;
 - b. obtaining the associated time stamp value of the or each dummy packet; calculating a time value for a packet to be transmitted after the dummy packets using a time stamp value from a previously transmitted packet which is a number of packets before the packet to be transmitted within the stream of data;
 - c. inserting the time value into the packet to be transmitted; and
 - d. transmitting the packet to be transmitted ~~from the transmitting node to a receiving node~~.
13. (currently amended) The method as claimed in claim 12 wherein ~~the~~ packets within the stream of data are grouped into one or more frames.

14. (canceled).

15. (currently amended) The method as claimed in claim ~~14~~ 12 wherein ~~the step of~~ calculating a time value ~~is completed by~~ comprises adding a value representing a length of time for transmission of the number of packets between the previously transmitted packet and the packet to be transmitted to the time stamp value from the previously transmitted packet.

16. (currently amended) The method as claimed in claim ~~15~~ 12 wherein the time value is comprises a presentation time value.

17. (currently amended) The method as claimed in claim ~~16~~ 12 wherein the stream of data is comprises isochronous data.

18. (currently amended) The method as claimed in claim ~~17~~ 12 wherein ~~the transmitting node and a receiving node are coupled together by an IEEE 1394-1995 serial bus network~~ transmitting the packet comprises transmitting in accordance with an IEEE 1394 standard.

19. (original) The method as claimed in claim 18 wherein the time value is inserted into an SYT field within a CIP header of the packet.

20-30. (canceled).

Please add the following new claims:

31. (new) A method of using a control application, comprising:
obtaining a time stamp value of a transmitted first packet;
using the time stamp value to calculate a time value associated with transmitting a second packet;
inserting the time value into the second packet before transmitting the second packet; and
using the time value to transmit the second packet.

32. (new) The method as claimed in claim 31 wherein calculating the time value comprises combining the time stamp value and a transmission duration for a number of packets between a time the first packet is transmitted and a time the second packet is to be transmitted.

33. (new) The method as claimed in claim 31 wherein the time value comprises a presentation time value.
34. (new) The method as claimed in claim 31 wherein the packets are included in an isochronous data stream.
35. (new) The method as claimed in claim 31 wherein transmitting comprises transmitting in accordance with an IEEE 1394 standard.
36. (new) The method as claimed in claim 35 wherein the time value is inserted into an SYT field within a CIP header of the packet.
37. (new) A method of transmitting a stream of data comprising:
transmitting one or more dummy packets, wherein each unique dummy packet has an associated time stamp value representing a time at which the dummy packet is transmitted;
calculating a time value for a packet to be transmitted after the or each dummy packet using a time stamp value from a previously transmitted packet which is a number of packets before the packet to be transmitted within the stream of data;
and
inserting the time value into the packet to be transmitted.
38. (new) The method as claimed in claim 37 wherein packets within the stream of data are grouped into one or more frames.
39. (new) The method as claimed in claim 37 wherein calculating a time value comprises adding a value representing a length of time for transmission of the number of packets between the previously transmitted packet and the packet to be transmitted to the time stamp value from the previously transmitted packet.
40. (new) The method as claimed in claim 37 wherein the time value comprises a presentation time value.
41. (new) The method as claimed in claim 37 wherein the stream of data comprises isochronous data.

42. (new) The method as claimed in claim 37 wherein transmitting comprises transmitting in accordance with an IEEE 1394 standard.
43. (new) The method as claimed in claim 42 wherein the time value is inserted into an SYT field within a CIP header of the packet.
44. (new) A method of transmitting data comprising:
transmitting a previous packet before a packet of data to be transmitted;
obtaining a time stamp value of the previous packet;
determining a time value using the time stamp value; and
inserting the time value into the packet of data to be transmitted.
45. (new) The method as claimed in claim 44 wherein determining a time value comprises adding a value representing a length of time for transmission of the previous packet and any packets between the previous packet and the packet of data to be transmitted, to the time stamp value.
46. (new) The method as claimed in claim 44 wherein at least three packets separate the packet of data to be transmitted from the previous packet.
47. (new) The method as claimed in claim 44 wherein the previous packet comprises a dummy packet.
48. (new) The method as claimed in claim 44 wherein the time value comprises a presentation time value.
49. (new) An apparatus for transmitting a stream of data comprising:
a transmitting interface configured to transmit a plurality of packets within the stream of data, wherein each of the packets has an associated time stamp value representing a time at which the packet is transmitted; and
a processor coupled to the transmitting interface to obtain a time stamp value of a previously transmitted packet, calculating a time value for a packet to be transmitted a number of packets after the previously transmitted packet using the

obtained time stamp value and inserting the time value into the packet to be transmitted before the packet to be transmitted is transmitted.

50. (new) The apparatus as claimed in claim 49 wherein the transmitting interface also transmits the packet to be transmitted after the time value is inserted into the packet to be transmitted by the processor.

51. (new) The apparatus as claimed in claim 49 wherein the time value comprises a presentation time value and is calculated by adding a value representing a length of time for transmission of the number of packets between the previously transmitted packet and the packet to be transmitted to the obtained time stamp value.

52. (new) The apparatus as claimed in claim 49 wherein the stream of data comprises isochronous data.

53. (new) The apparatus as claimed in claim 49 wherein the transmitting interface transmits packets in accordance with an IEEE 1394 standard.

54. (new) The apparatus as claimed in claim 53 wherein the time value is inserted into an SYT field within a CIP header of the packet to be transmitted.

55. (new) An apparatus for transmitting a stream of data comprising:
means for obtaining a time stamp value of a transmitted first packet;
means for calculating, coupled to the means for obtaining, for using the time stamp value to calculate a time value associated with transmitting a second packet;
means for inserting, coupled to the means for calculating, for inserting the time value into the second packet before transmitting the second packet; and
means for transmitting, coupled to the means for inserting, for using the time value to transmit the second packet.

56. (new) The apparatus as claimed in claim 55 wherein the time value comprises a presentation time value and is calculated by combining the time stamp value and a transmission duration for a number of packets between a time the first packet is transmitted and a time the second packet is to be transmitted.

57. (new) The apparatus as claimed in claim 55 wherein the stream of data comprises isochronous data.
58. (new) The apparatus as claimed in claim 55 wherein the means for transmitting transmits packets in accordance with an IEEE 1394 standard.
59. (new) The apparatus as claimed in claim 58 wherein the time value is inserted into an SYT field within a CIP header of the packet to be transmitted.
60. (new) An apparatus for transmitting a stream of data comprising:
means for transmitting one or more dummy packets, wherein each unique dummy packet has an associated time stamp value representing a time at which the dummy packet is transmitted;
means for calculating, coupled to the means for transmitting, for calculating a time value for a packet to be transmitted after the or each dummy packet using a time stamp value from a previously transmitted packet which is a number of packets before the packet to be transmitted within the stream of data; and
means for inserting, coupled to the means for calculating, for inserting the time value into the packet to be transmitted.
61. (new) The apparatus as claimed in claim 60 wherein the time value comprises a presentation time value and is calculated by adding a value representing a length of time for transmission of the number of packets between the previously transmitted packet and the packet to be transmitted to the obtained time stamp value.
62. (new) The apparatus as claimed in claim 60 wherein the stream of data comprises isochronous data.
63. (new) The apparatus as claimed in claim 60 wherein the means for transmitting transmits packets in accordance with an IEEE 1394 standard.
64. (new) The apparatus as claimed in claim 63 wherein the time value is inserted into an SYT field within a CIP header of the packet to be transmitted.

65. (new) A network of devices comprising:
a receiving node; and
a transmitting node including:
a transmitting interface configured to transmit a plurality of packets within a stream of data to the receiving node, wherein each of the packets has an associated time stamp value representing a time at which the packet is transmitted; and
a processor coupled to the transmitting interface to obtain a time stamp value of a previously transmitted packet, to calculate a time value for a packet to be transmitted a number of packets after the previously transmitted packet using the obtained time stamp value, and to insert the time value into the packet to be transmitted before the packet to be transmitted is transmitted.
66. (new) The network of devices as claimed in claim 65 wherein the transmitting interface also transmits the packet to be transmitted after the time value is inserted into the packet by the processor.
67. (new) The apparatus as claimed in claim 65 wherein the time value comprises a presentation time value and is calculated by adding a value representing a length of time for transmission of the number of packets between the previously transmitted packet and the packet to be transmitted to the obtained time stamp value.
68. (new) The apparatus as claimed in claim 65 wherein the stream of data comprises isochronous data.
69. (new) The apparatus as claimed in claim 65 wherein the transmitting interface transmits packets in accordance with an IEEE 1394 standard.
70. (new) The apparatus as claimed in claim 69 wherein the time value is inserted into an SYT field within a CIP header of the packet to be transmitted.